

Covered in this lecture:

The difference between the four concepts

▶ **#1 Web developer**

- Someone who has a strong competency in front-end design, with basic competency in back-end programming
- They can make a blog or a website
- They focus on how it looks
- They can be specialized in one of the platforms, like WordPress

▶ **#2 Software engineer**

- Someone who has a strong competency in back-end development and basic competency in front-end development
- They focus on complex apps
- They solve really hard problems and are paid a lot of money

▶ **#3 Full stack developer**

- Someone who is good at both front-end and back-end development
- They are very rare
- Usually, they are just ok at both

▶ **#4 Hacker**

- Someone who has basic competency in both front-end and back-end programming
- They can hack together something pretty quickly
- They try to get something done and they are not focused on usability

See you next lecture!

How do you choose?

LECTURE
SUMMARY

PRE-PROGRAMMING

Covered in this lecture:

Questions to ask yourself

▶ **#1 What are you orientated towards?**

- Front-end developers will work a lot with design and will have to be creative
- Back-end developers will solve problems and use logic

▶ **#2 Where do you see yourself using this programming?**

- Where do you want to work?
- Big companies need back-end developers
- If you want to work on your own projects, focus on the things that get it done the fastest (ex. Python, Ruby)
- You can hire someone to do the front-end
- If you like mobile, learn how to do mobile apps

See you next lecture!

How to learn front-end

LECTURE
SUMMARY

PRE-PROGRAMMING

Covered in this lecture:

Where to start

- ▶ Start with HTML because it's the easiest
- w3schools.com, Youtube tutorials
- ▶ Then move on to CSS
- Use online courses
- Download websites and try to edit and change the CSS
- ▶ Get an introduction to JavaScript
- Codecademy, Tutsplus, Lynda, Treehouse, OneMonth, Bento
- Learn JQuery
- ▶ Start looking at front-end development bootcamps (mostly online)

See you next lecture!

How to learn back-end

LECTURE
SUMMARY

PRE-PROGRAMMING

Covered in this lecture:

Where to start

- ▶ Back-end has the most options for learning
- ▶ First, pick a language
- ▶ Look at the companies you'd like to work for and see what language they use
- Ruby is best for web development and startups
- Python is the most flexible, you can program on desktop and the web
- PHP is best if you want to start your own thing or build something quickly
- Java is good if you want to work in a large company or want to build Android apps

See you next lecture!

Covered in this lecture:

How to start learning each language

● #1 Ruby

- Get familiar with the syntax and how it works
- Start with Codecademy
- Check out the Ruby community
- tryruby.org, rubymonk.com, codewars.com
- Online courses: OneMonth, Treehouse
- Get familiar with Rails

● #2 Python

- Google has an online course for it
- Codecademy, Coursera
- Learn a framework (examples: Django, Scrapy)

▶ #3 PHP

- Make sure you learn the most recent version
- You have to know basic HTML and CSS
- Codecademy, Udemy, books
- Understand how to use PHP in an object oriented way (OOP)

See you next lecture!

Should I specialize in new technologies?

LECTURE
SUMMARY

PRE-PROGRAMMING

Covered in this lecture:

More advice on how to choose

- ▶ The technology is constantly changing
- It doesn't mean that all the current trends will stick on the long term
- **Stick with the stuff that has persisted over time**
- ▶ What technology you use has no value to the clients
- If you have a personal preference, choose that one
- ▶ Keep up to date with changes in the industry

See you next lecture!